

Author Index for Volumes 63–66

- Aber, J. D.: *See* Martin, M. E.
- Acharya, P. K.: *See* Berk, A.
- Alpers, W.: *See* Gade, M.
- Althius, IJ. A.: *See* Hoogenboom, H. J.
- Anderson, G. P.: *See* Berk, A.
- Andreoli, G.: *See* Sandmeier, St.
- Archer, S.: *See* Asner, G. P.
- Aronsson, M.: *See* Green, R. O.
- Artigao, M. M.: *See* Caselles, V.
- Asner, G. P.: Biophysical and Biochemical Sources of Variability in Canopy Reflectance, 64:234
- Asner, G. P., Braswell, B. H., Schimel, D. S., Wessman, C. A.: Ecological Research Needs from Multiangle Remote Sensing Data, 63:155
- Asner, G. P., Wessman, C. A., Schimel, D. S., Archer, S.: Variability in Leaf and Litter Optical Properties: Implications for BRDF Model Inversions Using AVHRR, MODIS, and MISR, 63:243
- Atkinson, W. W. Jr.: *See* Baugh, W. M.
- Bajjouk, T., Populus, J., Guillaumont, B.: Quantification of Subpixel Cover Fractions Using Principal Component Analysis and a Linear Programming Method: Application to the Coastal Zone of Roscoff (France), 64:153
- Baker, J.: *See* Luckman, A.
- Barbosa, P. M., Pereira, J. M. C., Grégoire, J.-M.: Compositing Criteria for Burned Area Assessment Using Multitemporal Low Resolution Satellite Data, 65:38
- Baugh, W. M., Kruse, F. A., Atkinson, W. W. Jr.: Quantitative Geochemical Mapping of Ammonium Minerals in the Southern Cedar Mountains, Nevada, Using the Airborne Visible/Infrared Imaging Spectrometer (AVIRIS), 65:292
- Benson, C. S.: *See* Hall, D.K.
- Bergen, K. M.: *See* Pierce, L. E.
- Bergen, K. M., Dobson, M. C., Pierce, L. E., Ulaby, F. T.: Characterizing Carbon in a Northern Forest by Using SIR-C/X-SAR Imagery, 63:24
- Berk, A., Bernstein, L. S., Anderson, G. P., Acharya, P. K., Robertson, D. C., Chetwynd, J. H., Adler-Golden, S. M.: MODTRAN Cloud and Multiple Scattering Upgrades with Application to AVIRIS, 65:367
- Bernstein, L. S.: *See* Berk, A.
- Blackburn, G. A.: Quantifying Chlorophylls and Carotenoids at Leaf and Canopy Scales: An Evaluation of Some Hyperspectral Approaches, 66:273
- Blumberg, D. G.: Remote Sensing of Desert Dune Forms by Polarimetric Synthetic Aperture Radar (SAR), 65:204
- Borel, C. C.: *See* Schläpfer, D.
- Brasa, A.: *See* Caselles, V.
- Braswell, B. H.: *See* Asner, G. P.
- Breed, C. S.: *See* Musick, H. B.
- Bruniquel-Pinel, V., Castellu-Etchegorry, J. P.: Sensitivity of Texture of High Resolution Images of Forest to Biophysical and Acquisition Parameters, 65:61
- Buis, J. P.: *See* Holben, B. N.
- Buurmeijer, W. F.: *See* Rosema, A.
- Capderou, M.: Confirmation of Helmholtz Reciprocity Using ScaRaB Satellite Data, 64:266
- Carter, G. A.: Reflectance Wavebands and Indices for Remote Estimation of Photosynthesis and Stomatal Conductance in Pine Canopies, 63:61
- Caselles, V., Artigao, M. M., Hurtado, E., Coll, C., Brasa, A.: Mapping Actual Evapotranspiration by Combining Landsat TM and NOAA-AVHRR Images: Application to the Barrax Area, Albacete, Spain, 63:1
- Castañeda, C. M.: *See* Ustin, S. L.
- Cavazos, I.: *See* Escobar, D. E.
- Cervelle, B.: *See* Mathieu, R.
- Chami, M., Santer, R.: Aerosol Remote Sensing Using Ground-Based Measurements and POLDER Airborne Sensor above Coastal Waters, 66:203
- Chapron, B.: *See* Chen, G.
- Chen, G., Chapron, B., Tournadre, J., Katsaros, K., Vandemark, D.: Identification of Possible Wave Damping by Rain Using TOPEX and TMR Data, 63:40
- Chen, Z., Elvidge, C. D., Groeneveld, D. P.: Monitoring Seasonal Dynamics of Arid Land Vegetation Using AVIRIS Data, 65:255
- Chetwynd, J. H.: *See* Berk, A.
- Chippendale, B. J.: *See* Green, R. O.
- Chorowicz, J., Rouis, T., Rudant, J.-P., Manoussis, S.: Computer Aided Recognition of Relief Patterns on Radar Images Using a Syntax Analysis, 64:221
- Chovit, C. J.: *See* Green, R. O.

Author Index for Volumes 63–66

- Aber, J. D.: *See* Martin, M. E.
- Acharya, P. K.: *See* Berk, A.
- Alpers, W.: *See* Gade, M.
- Althius, IJ. A.: *See* Hoogenboom, H. J.
- Anderson, G. P.: *See* Berk, A.
- Andreoli, G.: *See* Sandmeier, St.
- Archer, S.: *See* Asner, G. P.
- Aronsson, M.: *See* Green, R. O.
- Artigao, M. M.: *See* Caselles, V.
- Asner, G. P.: Biophysical and Biochemical Sources of Variability in Canopy Reflectance, 64:234
- Asner, G. P., Braswell, B. H., Schimel, D. S., Wessman, C. A.: Ecological Research Needs from Multiangle Remote Sensing Data, 63:155
- Asner, G. P., Wessman, C. A., Schimel, D. S., Archer, S.: Variability in Leaf and Litter Optical Properties: Implications for BRDF Model Inversions Using AVHRR, MODIS, and MISR, 63:243
- Atkinson, W. W. Jr.: *See* Baugh, W. M.
- Bajjouk, T., Populus, J., Guillaumont, B.: Quantification of Subpixel Cover Fractions Using Principal Component Analysis and a Linear Programming Method: Application to the Coastal Zone of Roscoff (France), 64:153
- Baker, J.: *See* Luckman, A.
- Barbosa, P. M., Pereira, J. M. C., Grégoire, J.-M.: Compositing Criteria for Burned Area Assessment Using Multitemporal Low Resolution Satellite Data, 65:38
- Baugh, W. M., Kruse, F. A., Atkinson, W. W. Jr.: Quantitative Geochemical Mapping of Ammonium Minerals in the Southern Cedar Mountains, Nevada, Using the Airborne Visible/Infrared Imaging Spectrometer (AVIRIS), 65:292
- Benson, C. S.: *See* Hall, D.K.
- Bergen, K. M.: *See* Pierce, L. E.
- Bergen, K. M., Dobson, M. C., Pierce, L. E., Ulaby, F. T.: Characterizing Carbon in a Northern Forest by Using SIR-C/X-SAR Imagery, 63:24
- Berk, A., Bernstein, L. S., Anderson, G. P., Acharya, P. K., Robertson, D. C., Chetwynd, J. H., Adler-Golden, S. M.: MODTRAN Cloud and Multiple Scattering Upgrades with Application to AVIRIS, 65:367
- Bernstein, L. S.: *See* Berk, A.
- Blackburn, G. A.: Quantifying Chlorophylls and Carotenoids at Leaf and Canopy Scales: An Evaluation of Some Hyperspectral Approaches, 66:273
- Blumberg, D. G.: Remote Sensing of Desert Dune Forms by Polarimetric Synthetic Aperture Radar (SAR), 65:204
- Borel, C. C.: *See* Schläpfer, D.
- Brasa, A.: *See* Caselles, V.
- Braswell, B. H.: *See* Asner, G. P.
- Breed, C. S.: *See* Musick, H. B.
- Bruniquel-Pinel, V., Castellu-Etchegorry, J. P.: Sensitivity of Texture of High Resolution Images of Forest to Biophysical and Acquisition Parameters, 65:61
- Buis, J. P.: *See* Holben, B. N.
- Buurmeijer, W. F.: *See* Rosema, A.
- Capderou, M.: Confirmation of Helmholtz Reciprocity Using ScaRaB Satellite Data, 64:266
- Carter, G. A.: Reflectance Wavebands and Indices for Remote Estimation of Photosynthesis and Stomatal Conductance in Pine Canopies, 63:61
- Caselles, V., Artigao, M. M., Hurtado, E., Coll, C., Brasa, A.: Mapping Actual Evapotranspiration by Combining Landsat TM and NOAA-AVHRR Images: Application to the Barrax Area, Albacete, Spain, 63:1
- Castañeda, C. M.: *See* Ustin, S. L.
- Cavazos, I.: *See* Escobar, D. E.
- Cervelle, B.: *See* Mathieu, R.
- Chami, M., Santer, R.: Aerosol Remote Sensing Using Ground-Based Measurements and POLDER Airborne Sensor above Coastal Waters, 66:203
- Chapron, B.: *See* Chen, G.
- Chen, G., Chapron, B., Tournadre, J., Katsaros, K., Vandemark, D.: Identification of Possible Wave Damping by Rain Using TOPEX and TMR Data, 63:40
- Chen, Z., Elvidge, C. D., Groeneveld, D. P.: Monitoring Seasonal Dynamics of Arid Land Vegetation Using AVIRIS Data, 65:255
- Chetwynd, J. H.: *See* Berk, A.
- Chippendale, B. J.: *See* Green, R. O.
- Chorowicz, J., Rouis, T., Rudant, J.-P., Manoussis, S.: Computer Aided Recognition of Relief Patterns on Radar Images Using a Syntax Analysis, 64:221
- Chovit, C. J.: *See* Green, R. O.

- Chrien, T. G.: *See* Green, R. O.
- Chuah, H. T.: *See* Ewe, H. T.
- Church, R.: *See* Roberts, D. A.
- Coll, C.: *See* Caselles, V.; Schmugge, T.
- Conde, J. R.: *See* Ridao, E.
- Conese, C.: *See* Maselli, F.
- Congalton, R. G.: *See* Martin, M. E.
- Conradsen, K.: *See* Nielsen, A. A.
- Crósta, A. P., Sabine, C., Taranik, J. V.: Hydrothermal Alteration Mapping at Bodie, California, Using AVIRIS Hyperspectral Data, 65:309
- Curran, P. J.: *See* Dawson, T. P.
- Cutler, D. R.: *See* Edwards, T. C. Jr.
- Czaplewski, R. L.: *See* Stehman, S. V.
- Daly, J. L.: *See* Wang, Y.
- Datt, B.: Remote Sensing of Chlorophyll *a*, Chlorophyll *b*, Chlorophyll *a+b*, and Total Carotenoid Content in Eucalyptus Leaves, 66:111
- Daughtry, C. S. T., Walthall, C. L.: Spectral Discrimination of *Cannabis sativa* L. Leaves and Canopies, 64:192
- Davis, F. W.: *See* Wang, Y.
- Davis, M. R.: *See* Escobar, D. E.
- Dawson, T. P., Curran, P. J., Plummer, S. E.: LIBERTY—Modeling the Effects of Leaf Biochemical Concentration of Reflectance Spectra, 65:50
- Dekker, A. G.: *See* Hoogenboom, H. J.
- Dobson, M. C.: *See* Bergen, K. M.; Pierce, L. E.
- Dozier, J.: *See* Painter, T. H.
- Duke, C., Guérif, M.: Crop Reflectance Estimate Errors from the SAIL Model Due to Spatial and Temporal Variability of Canopy and Soil Characteristics, 66:286
- Eastwood, M. L.: *See* Green, R. O.
- Eck, T. F.: *See* Holben, B. N.
- Edwards, M.: *See* O'Brien, D. M.
- Edwards, T. C. Jr., Moisen, G. C., Cutler, D. R.: Assessing Map Accuracy in a Remotely Sensed, Ecoregion-Scale Cover Map, 63:73
- Elsum, C. C.: *See* O'Brien, D. M.
- Elvidge, C.: *See* Yuan, D.
- Elvidge, C. D.: *See* Chen, Z.
- Escadafal, R.: *See* Mathieu, R.
- Escobar, D. E., Everitt, J. H., Noriega, J. R., Cavazos, I., Davis, M. R.: A Twelve-Band Airborne Digital Video Imaging System (ADVIS), 66:122
- Eva, H., Lambin, E. F.: Remote Sensing of Biomass Burning in Tropical Regions: Sampling Issues and Multisensor Approach, 64:292
- Everitt, J. H.: *See* Escobar, D. E.
- Ewe, H. T., Chuah, H. T., Fung, A. K.: A Backscatter Model for a Dense Discrete Medium: Analysis and Numerical Results, 65:195
- Faust, J. A.: *See* Green, R. O.
- Fermont, A.: *See* Metternicht, G. I.
- Foster, J. L.: *See* Hall, D. K.
- Fouilloux, A., Iaquinta, J.: Assessment of Clouds Characteristics from Satellite Observations by Means of Self-Organized Neural Networks, 66:101
- Franklin, S. E.: *See* Wulder, M. A.
- Frison, P. L., Mougin, E., Hiernaux, P.: Observations and Interpretation of Seasonal ERS-1 Wind Scatterometer Data over Northern Sahel (Mali), 63:233
- Fung, A. K.: *See* Ewe, H. T.
- Gade, M., Alpers, W., Hühnerfuss, H., Wismann, V. R., Lange, P. A.: On the Reduction of the Radar Backscatter by Oceanic Surface Films: Scatterometer Measurements and Their Theoretical Interpretation, 66:52
- Galvão, L. S., Vitorello, Í.: Variability of Laboratory Measured Soil Lines of Soils from Southeastern Brazil, 63:166
- Ganapol, B. D., Johnson, L. F., Hammer, P. D., Hlavka, C. A., Peterson, D. L.: LEAFMOD: A New Within-Leaf Radiative Transfer Model, 63:182
- Gardner, M.: *See* Roberts, D. A.; Ustin, S. L.
- Gassó, S., Hegg, D. A.: Comparison of Columnar Aerosol Optical Properties Measured by the MODIS Airborne Simulator with *In Situ* Measurements: A Case Study, 66:138
- Gastellu-Etchegorry, J.-P.: *See* Bruniquel-Pinel, V.
- Gemmell, F.: An Investigation of Terrain Effects on the Inversion of a Forest Reflectance Model, 65:155
- Gemmell, F. M.: *See* McDonald, A. J.
- Gilbert, M. A.: *See* Maselli, F.
- Gillespie, A.: *See* Gu, D.
- Gitelson, A. A., Kaufman, Y. J.: MODIS NVDI Optimization to Fit the AVHRR Data Series—Spectral Considerations, 66:343
- Gordon, H. R.: In-Orbit Calibration Strategy for Ocean Color Sensors, 63:265
- Grandell, J., Pullianinen, J., Hallikainen, M.: Subpixel Land Use Classification and Retrieval of Forest Stem Volume in the Boreal Forest Zone by Employing SSM/I Data, 63:140
- Green, R. O.: *See* Painter, T. H.; Roberts, D. A.
- Green, R. O., Eastwood, M. L., Sarture, C. M., Chrien, T. G., Aronsson, M., Chippendale, B. J., Faust, J. A., Pavri, B. E., Chovit, C. J., Solis, M., Olah, M. R., Williams, O.: Imaging Spectroscopy and the Airborne Visible/Infrared Imaging Spectrometer (AVIRIS), 65:227
- Grégoire, J.-M.: *See* Barbosa, P. M.
- Groeneveld, D.P.: *See* Chen, Z.
- Gross, H. N., Schott, J. R.: Application of Spectral Mixture Analysis and Image Fusion Techniques for Image Sharpening, 63:85

- Gu, D., Gillespie, A.: Topographic Normalization of Landsat TM Images of Forest Based on Subpixel Sun-Canopy-Sensor Geometry, 64:166
- Guérif, M.: *See* Duke, C.
- Guillaumont, B.: *See* Bajjouk, T.
- Hagner, O., Rigina, O.: Detection of Forest Decline in Monchegorsk Area, 63:11
- Hall, D. K., Foster, J. L., Verbyla, D. L., Klein, A. G., Benson, C. S.: Assessment of Snow-Cover Mapping Accuracy in a Variety of Vegetation-Cover Densities in Central Alaska, 66:129
- Hallikainen, M.: *See* Grandell, J.
- Hammer, P. D.: *See* Ganapol, B. D.
- Harris, A.: *See* Simpson, J. J.
- Hegg, D. A.: *See* Gassó, S.
- Hiernaux, P.: *See* Frison, P. L.
- Hlavka, C. A.: *See* Ganapol, B. D.
- Holben, B. N., Eck, T. F., Slutsker, I., Tanré, D., Buis, J. P., Setzer, A., Vermote, E., Reagan, J. A., Kaufman, Y. J., Nakajima, T., Lavenu, F., Jankowiak, I., Smirnov, A.: AERONET—A Federated Instrument Network and Data Archive for Aerosol Characterization, 66:1
- Holden, H., LeDrew, E.: Spectral Discrimination of Healthy and Non-Healthy Corals Based on Cluster Analysis, Principal Components Analysis, and Derivative Spectroscopy, 65:217
- Holyer, R. J.: *See* Sandidge, J. C.
- Honzák, M.: *See* Luckman, A.
- Hoogenboom, H. J., Dekker, A. G., Althuis, IJ. A.: Simulation of AVIRIS Sensitivity for Detecting Chlorophyll over Coastal and Inland Waters, 65:333
- Hook, S. J.: *See* Schmugge, T.
- Horton, K. A.: *See* Johnson, J. R.
- Horton, K. A., Johnson, J. R., Lucey, P. G.: Infrared Measurements of Pristine and Disturbed Soils 2. Environmental Effects and Field Data Reduction, 64:47
- Hosgood, B.: *See* Sandmeier, St.
- Hudak, A. T., Wessman, C. A.: Textural Analysis of Historical Aerial Photography to Characterize Woody Plant Encroachment in South African Savanna, 66:317
- Huete, A. R.: *See* Sano, E. E.
- Hühnerfuss, H.: *See* Gade, M.
- Hurtado, E.: *See* Caselles, V.
- Iaquinta, J.: *See* Fouilloux, A.
- Itten, K. I.: *See* Schläpfer, D.
- Jacquemoud, S.: *See* Ustin, S. L.
- Jankowiak, I.: *See* Holben, B. N.
- Jia, X., Richards, J. A.: Progressive Two-Class Decision Classifier for Optimization of Class Discriminations, 63:289
- Johnson, J. R.: *See* Horton, K. A.
- Johnson, J. R., Lucey, P. G., Horton, K. A., Winter, E. M.: Infrared Measurements of Pristine and Disturbed Soils 1. Spectral Contract Differences between Field and Laboratory Data, 64:34
- Johnson, L. F.: *See* Ganapol, B. D.
- Katsaros, K.: *See* Chen, G.
- Kaufman, Y. J.: *See* Gitelson, A. A.; Holben, B. N.
- Keiner, L. E., Yan, X.-H.: A Neural Network Model for Estimating Sea Surface Chlorophyll and Sediments from Thematic Mapper Imagery, 66:153
- Keller, J.: *See* Schläpfer, D.
- Kimes, D. S., Nelson, R. F., Skole, D. L., Salas, W. A.: Accuracies in Mapping Secondary Tropical Forest Age from Sequential Satellite Imagery, 65:112
- Klein, A. G.: *See* Hall, D. K.
- Knap, W. H., Reijmer, C. H.: Anisotropy of the Reflected Radiation Field Over Melting Glacier Ice: Measurements in Landsat TM Bands 2 and 4, 65:93
- Koelemeijer, R. B. A., Stammes, P., Watts, P. D.: Comparison of Visible Calibrations of GOME and ATSR-2, 63:279
- Kogan, F. N.: *See* Unganai, L. S.
- Kruse, F. A.: *See* Baugh, W. M.
- Kustas, W. P., Zhan, X., Schmugge, T. J.: Combining Optical and Microwave Remote Sensing for Mapping Energy Fluxes in a Semiarid Watershed, 64:116
- Lambin, E. F.: *See* Eva, H.
- Lange, P. A.: *See* Gade, M.
- Lavenu, F.: *See* Holben, B. N.
- Lavigne, M. B.: *See* Wulder, M. A.
- Lawrence, R. L., Ripple, W. J.: Comparisons among Vegetation Indices and Bandwise Regression in a Highly Disturbed, Heterogenous Landscape: Mount St. Helens, Washington, 64:91
- Leath, D. M.: *See* Simpson, J. J.
- LeDrew, E.: *See* Holden, H.
- LeDrew, E. F.: *See* Piwowar, J. M.; Wulder, M. A.
- LeLong, C. D. C., Pinet, P. C., Poilvé, H.: Hyperspectral Imaging and Stress Mapping in Agriculture: A Case Study on Wheat in Beauce (France), 66:179
- Levin, I. M., Shifrin, K. S.: Potential for Determining the Sea Water Absorption Coefficient by Satellite Pulsed Lidar, 65:105
- Lewis, P. E.: *See* McDonald, A. J.
- Li, Z., Sun, W., Zeng, Q.: Measurements of Glacier Variation in the Tibetan Plateau Using Landsat Data, 63:258

- Liu, J.: *See* Ridd, M. K.
- Lucas, R.: *See* Luckman, A.
- Lucey, P. G.: *See* Horton, K. A.; Johnson, J. R.
- Luckman, A., Baker, J., Honzák, M., Lucas, R.: Tropical Forest Biomass Density Estimation Using JERS-1 SAR: Seasonal Variation, Confidence Limits, and Application to Image Mosaics, 63:126
- Mallawaarachchi, T.: *See* Walker, P. A.
- Manoussis, S.: *See* Chorowicz, J.
- Martin, M. E., Newman, S. D., Aber, J. D., Congalton, R. G.: Determining Forest Species Composition Using High Spectral Resolution Remote Sensing Data, 65:249
- Maselli, F., Gilabert, M. A., Conese, C.: Integration of High and Low Resolution NDVI Data for Monitoring Vegetation in Mediterranean Environments, 63:208
- Maslanik, J.: *See* Stroeve, J.
- Masuda, K.: Effects of the Speed and Direction of Surface Winds on the Radiation in the Atmosphere-Ocean System, 64:53
- Mathieu, R., Pouget, M., Cervelle, B., Escadafal, R.: Relationships between Satellite-Based Radiometric Indices Simulated Using Laboratory Reflectance Data and Typic Soil Color of an Arid Environment, 66:17
- McDonald, A. J., Gemmell, F. M., Lewis, P. E.: Investigation of the Utility of Spectral Vegetation Indices for Determining Information on Coniferous Forests, 66:250
- Metternicht, G. I., Fermont, A.: Estimating Erosion Surface Features by Linear Mixture Modeling, 64:254
- Milton, E. J.: *See* Rollin, E. M.
- Minguez, M. I.: *See* Ridao, E.
- Mitchell, R. M.: *See* O'Brien, D. M.
- Miura, T.: *See* Sano, E. E.
- Moisen, G. C.: *See* Edwards, T. C. Jr.
- Moody, A.: Using Landscape Spatial Relationships to Improve Estimates of Land-Cover Area from Coarse Resolution Remote Sensing, 64:202
- Moran, M. S.: *See* Sano, E. E.
- Mougin, E.: *See* Frison, P. L.
- Müller, Ch.: *See* Sandmeier, St.
- Musick, H. B., Schaber, G. G., Breed, C. S.: AIRSAR Studies of Woody Shrub Density in Semiarid Rangeland: Jornada del Muerto, New Mexico, 66:29
- Nakajima, T.: *See* Holben, B. N.
- Nelson, R. F.: *See* Kimes, D. S.
- Nerry, F., Petitcolin, F., Stoll, M. P.: Bidirectional Reflectivity in AVHRR Channel 3: Application to a Region in Northern Africa, 66:298
- Newman, S. D.: *See* Martin, M. E.
- Nielsen, A. A., Conradsen, K., Simpson, J. J.: Multivariate Alteration Detection (MAD) and MAF Postprocessing in Multispectral, Bitemporal Image Data: New Approaches to Change Detection Studies, 64:1
- Noriega, J. R.: *See* Escobar, D. E.
- O'Brien, D. M., Mitchell, R. M., Edwards, M., Elsum, C. C.: Estimation of BRDF from AVHRR Short-Wave Channels: Tests over Semiarid Australian Sites, 66:71
- Olah, M. R.: *See* Green, R. O.
- Painter, T. H., Roberts, D. A., Green, R. O., Dozier, J.: The Effect of Grain Size on Spectral Mixture Analysis of Snow-Covered Area from AVIRIS Data, 65:320
- Palacios-Orueta, A., Ustin, S. L.: Remote Sensing of Soil Properties in the Santa Monica Mountains I. Spectral Analysis, 65:170
- Palacios-Orueta, A.: *See* Ustin, S. L.
- Paris, J. F.: *See* Wang, Y.
- Patterson, M. W., Yool, S. R.: Mapping Fire-Induced Vegetation Mortality Using Landsat Thematic Mapper Data: A Comparison of Linear Transformation Techniques, 65:132
- Pavri, B. E.: *See* Green, R. O.
- Peddle, D. R.: *See* Piwowar, J. M.
- Pereira, J. M. C.: *See* Barbosa, P. M.
- Peterson, D. L.: *See* Ganapol, B. D.
- Petitcolin, F.: *See* Nerry, F.
- Philpot, W.: *See* Tsai, F.
- Pierce, L. E.: *See* Bergen, K. M.
- Pierce, L. E., Bergen, K. M., Dobson, M. C., Ulaby, F. T.: Multitemporal Land-Cover Classification Using SIR-C/X- SAR Imagery, 64:20
- Pinet, P. C.: *See* LeLong, C. D. C.
- Pinzón, J.: *See* Ustin, S. L.
- Piwowar, J. M., Peddle, D. R., LeDrew, E. F.: Temporal Mixture Analysis of Arctic Sea Ice Imagery: A New Approach for Monitoring Environmental Change, 63:195
- Plummer, S. E.: *See* Dawson, T. P.
- Poillvé, H.: *See* LeLong, C. D. C.
- Populus, J.: *See* Bajjouk, T.
- Pouget, M.: *See* Mathieu, R.
- Price, J. C.: An Approach for Analysis of Reflectance Spectra, 64:316
- Pullianinen, J.: *See* Grandell, J.
- Reagan, J. A.: *See* Holben, B. N.
- Redmond, R. L.: *See* Steele, B. M.
- Reed, B. C.: *See* Yang, L.
- Reijmer, C. H.: *See* Knap, W. H.
- Richards, J. A.: *See* Jia, X.
- Ridao, E., Conde, J. R., Minguez, M. I.: Estimating fa-

- PAR from Nine Vegetation Indices for Irrigated and Nonirrigated Faba Bean and Semileafless Pea Canopies, 66:87
- Ridd, M. K., Liu, J.: A Comparison of Four Algorithms for Change Detection in an Urban Environment, 63:95
- Rigina, O.: *See* Hagner, O.
- Ripple, W. J.: *See* Lawrence, R. L.
- Roberts, D. A.: *See* Painter, T. H.; Ustin, S. L.
- Roberts, D. A., Gardner, M., Church, R., Ustin, S., Scheer, G., Green, R. O.: Mapping Chaparral in the Santa Monica Mountains Using Multiple Endmember Spectral Mixture Models, 65:267
- Robertson, D. C.: *See* Berk, A.
- Roger, J. C., Vermote, E. F.: A Method to Retrieve the Reflectivity Signature at 3.75 μm from AVHRR Data, 64:103
- Rollin, E. M., Milton, E. J.: Processing of High Spectral Resolution Reflectance Data for the Retrieval of Canopy Water Content Information, 65:86
- Rosema, A., Snel, J. F. H., Zahn, H., Buurmeijer, W. F., Van Hove, L. W. A.: The Relation between Laser-Induced Chlorophyll Fluorescence and Photosynthesis, 65:143
- Rouis, T.: *See* Chorowicz, J.
- Rudant, J.-P.: *See* Chorowicz, J.
- Sabine, C.: *See* Crósta, A. P.
- Salas, W. A.: *See* Kimes, D. S.
- Sandidge, J. C., Hoyer, R. J.: Coastal Bathymetry from Hyperspectral Observations of Water Radiance, 65:31
- Sandmeier, St., Müller, Ch., Hosgood, B., Andreoli, G.: Physical Mechanisms in Hyperspectral BRDF Data of Grass and Watercress, 66:222
- Sandmeier, St., Müller, Ch., Hosgood, B., Andreoli, G.: Sensitivity Analysis and Quality Assessment of Laboratory BRDF Data, 64:176
- Sano, E. E., Moran, M. S., Huete, A. R., Miura, T.: C- and Multiangle Ku-Band Synthetic Aperture Radar Data for Bare Soil Moisture Estimation in Agricultural Areas, 64:77
- Santer, R.: *See* Chami, M.
- Sarture, C. M.: *See* Green, R. O.
- Schaber, G. G.: *See* Musick, H. B.
- Scheer, G.: *See* Roberts, D. A.; Ustin, S. L.
- Schimel, D. S.: *See* Asner, G. P.
- Schläpfer, D., Borel, C. C., Keller, J., Itten, K. I.: Atmospheric Precorrected Differential Absorption Technique to Retrieve Columnar Water Vapor, 65:353
- Schmidt, A.: *See* Simpson, J. J.
- Schmugge, T., Hook, S. J., Coll, C.: Recovering Surface Temperature and Emissivity from Thermal Infrared Multispectral Data, 65:121
- Schmugge, T. J.: *See* Kustas, W. P.
- Schott, J. R.: *See* Gross, H. N.
- Schoups, G., Troch, P. A., Verhoest, N.: Soil Moisture Influences on the Radar Backscattering of Sugar Beet Fields, 65:184
- Setzer, A.: *See* Holben, B. N.
- Shifrin, K. S.: *See* Levin, I. M.
- Simpson, J. J.: *See* Nielsen, A. A.
- Simpson, J. J., Schmidt, A., Harris, A.: Improved Cloud Detection in Along Track Scanning Radiometer (ATSR) Data over the Ocean, 65:1
- Simpson, J. J., Stitt, J. R., Leath, D. M.: Improved Finite Impulse Response Filters for Enhanced Destriping of Geostationary Satellite Data, 66:235
- Skole, D. L.: *See* Kimes, D. S.
- Slutsker, I.: *See* Holben, B. N.
- Smirnov, A.: *See* Holben, B. N.
- Snel, J. F. H.: *See* Rosema, A.
- Solis, M.: *See* Green, R. O.
- Stammes, P.: *See* Koelemeijer, R. B. A.
- Steele, B. M., Winne, J. C., Redmond, R. L.: Estimation and Mapping of Misclassification Probabilities for Thematic Land Cover Maps, 66:192
- Stehman, S. V., Czaplewski, R. L.: Design and Analysis for Thematic Map Accuracy Assessment: Fundamental Principles, 64:331
- Steven, M. D.: The Sensitivity of the OSAVI Vegetation Index to Observational Parameters, 63:49
- Stitt, J. R.: *See* Simpson, J. J.
- Stoll, M. P.: *See* Nerry, F.
- Stroeve, J., Maslanik, J., Xiang, L.: An Intercomparison of DMSP F11- and F13-Derived Sea Ice Products, 64:132
- Sun, W.: *See* Li, Z.
- Tait, A. B.: Estimation of Snow Water Equivalent Using Passive Microwave Radiation Data, 64:286
- Tanré, D.: *See* Holben, B. N.
- Taranik, J. V.: *See* Crósta, A. P.
- Tieszen, L. L.: *See* Yang, L.
- Tournadre, J.: *See* Chen, G.
- Troch, P. A.: *See* Schoups, G.
- Tsai, F., Philpot, W.: Derivative Analysis of Hyperspectral Data, 66:41
- Ulaby, F. T.: *See* Bergen, K. M.; Pierce, L. E.
- Unganai, L. S., Kogan, F. N.: Drought Monitoring and Corn Yield Estimation in Southern Africa from AVHRR Data, 63:219
- Ustin, S.: *See* Roberts, D. A.
- Ustin, S. L.: *See* Palacios-Orueta, A.

- Ustin, S. L., Roberts, D. A., Pinzón, J., Jacquemoud, S., Gardner, M., Scheer, G., Castañeda, C. M., Palacios-Orueta, A.: Estimating Canopy Water Content of Chaparral Shrubs Using Optical Methods, 65:280
- Van Hove, L. W. A.: *See* Rosema, A.
- Vandemark, D.: *See* Chen, G.
- Verbyla, D. L.: *See* Hall, D. K.
- Verhoest, N.: *See* Schoups, G.
- Vermote, E.: *See* Holben, B. N.
- Vermote, E. F.: *See* Roger, J. C.
- Vitorello, Í.: *See* Galvão, L. S.
- Walker, P. A., Mallawaarachchi, T.: Disaggregating Agricultural Statistics Using NOAA-AVHRR NDVI, 63:112
- Walthall, C. L.: *See* Daughtry, C. S. T.
- Wang, Y., Daly, J. L., Davis, F. W.: Sensitivity of Modeled C- and L-Band Radar to Ground Surface Parameters in Loblolly Pine Forest, 66:331
- Wang, Y., Paris, J. F., Davis, F. W.: Inclusion of a Simple Multiple Scattering Model into a Microwave Canopy Backscatter Model, 63:101
- Watts, P. D.: *See* Koelemeijer, R. B. A.
- Wessman, C.A.: *See* Asner, G. P.; Hudak, A. T.
- Williams, O.: *See* Green, R. O.
- Winne, J. C.: *See* Steele, B. M.
- Wismann, V. R.: *See* Gade, M.
- Wulder, M.A., LeDrew, E. F., Franklin, S. E., Lavigne, M. B.: Aerial Image Texture Information in the Estimation of Northern Deciduous and Mixed Wood Forest Leaf Area Index (LAI), 64:64
- Wylie, B. K.: *See* Yang, L.
- Xiaming, L.: *See* Stroeve, J.
- Yan, X.-H.: *See* Keiner, L. E.
- Yang, L., Wylie, B. K., Tieszen, L. L., Reed, B. C.: An Analysis of Relationships among Climate Forcing and Time-Integrated NDVI of Grasslands over the U.S. Northern and Central Great Plains, 65:25
- Yool, S. R.: *See* Patterson, M. W.
- Yuan, D., Elvidge, C.: NALC Land Cover Change Detection Pilot Study: Washington D.C. Area Experiments, 66:166
- Zahn, H.: *See* Rosema, A.
- Zeng, Q.: *See* Li, Z.
- Zhan, X.: *See* Kustas, W. P.

Subject Index for Volumes 63–66

Accuracy Assessment

Assessing Map Accuracy in a Remotely Sensed, Ecoregion-Scale Cover Map, T. C. Edwards Jr., G. G. Moisen, D. R. Cutler, 63:73

Assessment of Snow-Cover Mapping Accuracy in a Variety of Vegetation-Cover Densities in Central Alaska, D. K. Hall, J. L. Foster, D. L. Verbyla, A. G. Klein, S. C. Benson, 66:129

Design and Analysis for Thematic Map Accuracy Assessment: Fundamental Principles, S. V. Stehman, R. L. Czaplewski, 64:331

Estimation and Mapping of Misclassification Probabilities for Thematic Land Cover Maps, B. M. Steele, J. C. Winne, R. L. Redmond, 66:192

Aerial Imagery

Aerial Image Texture Information in the Estimation of Northern Deciduous and Mixed Wood Forest Leaf Area Index (LAI), M. A. Wulder, E. F. LeDrew, S. E. Franklin, M. B. Lavigne, 64:64

Textural Analysis of Historical Aerial Photography to Characterize Woody Plant Encroachment in South African Savanna, A. T. Hudak, C. A. Wessman, 66:317

Algorithms

Multivariate Alteration Detection (MAD) and MAF Post-processing in Multispectral, Bitemporal Image Data: New Approaches to Change Detection Studies, A. A. Nielsen, K. Conradsen, J. J. Simpson, 64:1

Quantification of Subpixel Cover Fractions Using Principal Component Analysis and a Linear Programming Method: Application to the Coastal Zone of Roscoff (France), T. Bajjouk, J. Populus, B. Guillaumont, 64:153

Altimetry

Identification of Possible Wave Damping by Rain Using TOPEX and TMR Data, G. Chen, B. Chapron, J. Tournadre, K. Katsaros, D. Vandemark, 63:40

Area Estimation

Disaggregating Agricultural Statistics Using NOAA-AVHRR NDVI, P. A. Walker, T. Mallawaarachchi, 63:112

Atmosphere Properties

AERONET—A Federated Instrument Network and Data Archive for Aerosol Characterization, B. N. Holben, T. F. Eck, I. Slutsker, D. Tanré, J. P. Buis, A. Setzer, E. Vermote, J. A. Reagan, Y. J. Kaufman, T. Nakajima, F. Lavenu, I. Jankowiak, A. Smirnov, 66:1

Aerosol Remote Sensing Using Ground-Based Measurements and POLDER Airborne Sensor above Coastal Waters, M. Chami, R. Santer, 66:203

Assessment of Clouds Characteristics from Satellite Observations by Means of Self-Organized Neural Networks, A. Fouilloux, J. Iaquinata, 66:101

Atmospheric Precorrected Differential Absorption Technique to Retrieve Columnar Water Vapor, D. Schläpfer, C. C. Borel, J. Keller, K. I. Itten, 65:353

Effects of the Speed and Direction of Surface Winds on the Radiation in the Atmosphere-Ocean System, K. Masuda, 64:53

Improved Cloud Detection in Along Track Scanning Radiometer (ATSR) Data over the Ocean, J. J. Simpson, A. Schmidt, A. Harris, 65:1

MODTRAN Cloud and Multiple Scattering Upgrades with Application to AVIRIS, A. Berk, L. S. Bernstein, G. P. Anderson, P. K. Acharya, D. C. Robertson, J. H. Chetwynd, S. M. Adler-Golden, 65:367

Atmospheric Effects

AERONET—A Federated Instrument Network and Data Archive for Aerosol Characterization, B. N. Holben, T. F. Eck, I. Slutsker, D. Tanré, J. P. Buis, A. Setzer, E. Vermote, J. A. Reagan, Y. J. Kaufman, T. Nakajima, F. Lavenu, I. Jankowiak, A. Smirnov, 66:1

AVHRR

An Analysis of Relationships among Climate Forcing and Time-Integrated NDVI of Grasslands over the U.S. Northern and Central Great Plains, L. Yang, B. K. Wylie, L. L. Tieszen, B. C. Reed, 65:25

Bidirectional Reflectivity in AVHRR Channel 3: Application to a Region in Northern Africa, F. Nerry, F. Petitcolin, M. P. Stoll, 66:298

Compositing Criteria for Burned Area Assessment Using

- Multitemporal Low Resolution Satellite Data, P. M. Barbosa, J. M. C. Pereira, J.-M. Grégoire, 65:38
- Disaggregating Agricultural Statistics Using NOAA-AVHRR NDVI, P. A. Walker, T. Mallawaarachchi, 63:112
- Drought Monitoring and Corn Yield Estimation in Southern Africa from AVHRR Data, L. S. Unganai, F. N. Kogan, 63:219
- Estimation of BRDF from AVHRR Short-Wave Channels: Tests over Semiarid Australian Sites, D. M. O'Brien, R. M. Mitchell, M. Edwards, C. C. Elsum, 66:71
- Integration of High and Low Resolution NDVI Data for Monitoring Vegetation in Mediterranean Environments, F. Maselli, M. A. Gilabert, C. Conese, 63:208
- Mapping Actual Evapotranspiration by Combining Landsat TM and NOAA-AVHRR Images: Application to the Barrax Area, Albacete, Spain, V. Caselles, M. M. Artigao, E. Hurtado, C. Coll, A. Brasa, 63:1
- A Method to Retrieve the Reflectivity Signature at 3.75 μm from AVHRR Data, J.C. Roger, E.F. Vermote, 103
- MODIS NVDI Optimization to Fit the AVHRR Data Series—Spectral Considerations, A. A. Gitelson, Y. J. Kaufman, 66:343
- Multivariate Alteration Detection (MAD) and MAF Post-processing in Multispectral, Bitemporal Image Data: New Approaches to Change Detection Studies, A. A. Nielsen, K. Conradsen, J. J. Simpson, 64:1
- Remote Sensing of Biomass Burning in Tropical Regions: Sampling Issues and Multisensor Approach, H. Eva, E. F. Lambin, 64:292
- Variability in Leaf and Litter Optical Properties: Implications for BRDF Model Inversions Using AVHRR, MODIS, and MISR, G. P. Asner, C. A. Wessman, D. S. Schimel, S. Archer, 63:243
- Biochemistry**
- Biophysical and Biochemical Sources of Variability in Canopy Reflectance, G. P. Asner, 64:234
- Compositing Criteria for Burned Area Assessment Using Multitemporal Low Resolution Satellite Data, P. M. Barbosa, J. M. C. Pereira, J.-M. Grégoire, 65:38
- Calibration**
- Comparison of Visible Calibrations of COMET and ATSR-2, R. B. A. Koelemeijer, P. Stammes, P. D. Watts, 63:279
- In-Orbit Calibration Strategy for Ocean Color Sensors, H. R. Gordon, 63:265
- Change Detection**
- A Comparison of Four Algorithms for Change Detection in an Urban Environment, M. K. Ridd, J. Liu, 63:95
- Multivariate Alteration Detection (MAD) and MAF Post-processing in Multispectral, Bitemporal Image Data: New Approaches to Change Detection Studies, A. A. Nielsen, K. Conradsen, J. J. Simpson, 64:1
- NALC Land Cover Change Detection Pilot Study: Washington D.C. Area Experiments, D. Yuan, C. Elvidge, 66:166
- Chlorophyll**
- A Neural Network Model for Estimating Sea Surface Chlorophyll and Sediments from Thematic Mapper Imagery, L. E. Keiner, X.-H. Yan, 66:153
- Quantifying Chlorophylls and Carotenoids at Leaf and Canopy Scales: An Evaluation of Some Hyperspectral Approaches, G. A. Blackburn, 66:273
- The Relation between Laser-Induced Chlorophyll Fluorescence and Photosynthesis, A. Rosema, J. F. H. Snel, H. Zahn, W. F. Buurmeijer, L. W. A. Van Hove, 65:143
- Remote Sensing of Chlorophyll *a*, Chlorophyll *a+b*, and Total Carotenoid Content in Eucalyptus Leaves, B. Datt, 66:111
- Climate**
- An Analysis of Relationships among Climate Forcing and Time-Integrated NDVI of Grasslands over the U.S. Northern and Central Great Plains, L. Yang, B. K. Wylie, L. L. Tieszen, B. C. Reed, 65:25
- Clouds**
- Assessment of Clouds Characteristics from Satellite Observations by Means of Self-Organized Neural Networks, A. Fouilloux, J. Iaquina, 66:101
- Improved Cloud Detection in Along Track Scanning Radiometer (ATSR) Data over the Ocean, J. J. Simpson, A. Schmidt, A. Harris, 65:1
- Crops**
- Estimating fAPAR from Nine Vegetation Indices for Irrigated and Nonirrigated Faba Bean and Semileafless Pea Canopies, E. Ridao, J. R. Conde, M. I. Minguez, 66:87
- Hyperspectral Imaging and Stress Mapping in Agriculture: A Case Study on Wheat in Beauce (France), C. C. D. LeLong, P. C. Pinet, H. Poilvé, 66:179
- Integration of High and Low Resolution NDVI Data for Monitoring Vegetation in Mediterranean Environments, F. Maselli, M. A. Gilabert, C. Conese, 63:208
- Desert**
- Remote Sensing of Desert Dune Forms by Polarimetric Synthetic Aperture Radar (SAR), D. G. Blumberg, 65:204

Earth Observing System Sensors

- Comparison of Columnar Aerosol Optical Properties Measured by the MODIS Airborne Simulator with *In Situ* Measurements: A Case Study, S. Gassó, D. A. Hegg, 66:138
- MODIS NVDI Optimization to Fit the AVHRR Data Series—Spectral Considerations, A. A. Gitelson, Y. J. Kaufman, 66:343
- Variability in Leaf and Litter Optical Properties: Implications for BRDF Model Inversions Using AVHRR, MODIS, and MISR, G. P. Asner, C. A. Wessman, D. S. Schimel, S. Archer, 63:243

Ecology

- Ecology Research Needs from Multiangle Remote Sensing Data, G. P. Asner, B. H. Braswell, D. S. Schimel, C. A. Wessman, 63:155

Emissivity

- Infrared Measurements of Pristine and Disturbed Soils
2. Environmental Effects and Field Data Reduction, K. A. Horton, J. R. Johnson, P. G. Lucey, 64:47
- Infrared Measurements of Pristine and Disturbed Soils
1. Spectral Contrast Differences between Field and Laboratory Data, J. R. Johnson, P. G. Lucey, K. A. Horton, E. M. Winter, 64:34
- Recovering Surface Temperature and Emissivity from Thermal Infrared Multispectral Data, T. Schmugge, S. J. Hook, C. Coll, 65:121

Energy Balance and Fluxes

- Combining Optical and Microwave Remote Sensing for Mapping Energy Fluxes in a Semiarid Watershed, W. P. Kustas, X. Zhan, T. J. Schmugge, 64:116

Environment

- Remote Sensing of Biomass Burning in Tropical Regions: Sampling Issues and Multisensor Approach, H. Eva, E. F. Lambin, 64:292
- Spectral Discrimination of Healthy and Non-Healthy Corals Based on Cluster Analysis, Principal Components Analysis, and Derivative Spectroscopy, H. Holden, E. LeDrew, 65:217

Evapotranspiration

- Mapping Actual Evapotranspiration by Combining Landsat TM and NOAA-AVHRR Images: Application to the Barrax Area, Albacete, Spain, V. Caselles, M. M. Artigao, E. Hurtado, C. Coll, A. Brasa, 63:1

Fires

- Compositing Criteria for Burned Area Assessment Using Multitemporal Low Resolution Satellite Data, P. M. Barbosa, J. M. C. Pereira, J.-M. Grégoire, 65:38

- Mapping Fire-Induced Vegetation Mortality Using Landsat Thematic Mapper Data: A Comparison of Linear Transformation Techniques, M. W. Patterson, S. R. Yool, 65:132

- Remote Sensing of Biomass Burning in Tropical Regions: Sampling Issues and Multisensor Approach, H. Eva, E. F. Lambin, 64:292

Fluorescence

- The Relation between Laser-Induced Chlorophyll Fluorescence and Photosynthesis, A. Rosema, J. F. H. Snel, H. Zahn, W. F. Buurmeijer, L. W. A. Van Hove, 65:143

Forests

- Accuracies in Mapping Secondary Tropical Forest Age from Sequential Satellite Imagery, D. S. Kimes, R. F. Nelson, D. L. Skole, W. A. Salas, 65:112
- Aerial Image Texture Information in the Estimation of Northern Deciduous and Mixed Wood Forest Leaf Area Index (LAI), M. A. Wulder, E. F. LeDrew, S. E. Franklin, M. B. Lavigne, 64:64
- Characterizing Carbon in a Northern Forest by Using SIR-C/X-SAR Imagery, K. M. Bergen, M. C. Dobson, L. E. Pierce, F. T. Ulaby, 63:24
- Detection of Forest Decline in Monchegorsk Area, O. Hagner, O. Rigina, 63:11
- Determining Forest Species Composition Using High Spectral Resolution Remote Sensing Data, M. E. Martin, S. D. Newman, J. D. Aber, R. G. Congalton, 65:249
- An Investigation of Terrain Effects on the Inversion of a Forest Reflectance Model, F. Gemmell, 65:155
- Investigation of the Utility of Spectral Vegetation Indices for Determining Information on Coniferous Forests, A. J. McDonald, F. M. Gemmell, P. E. Lewis, 66:250
- Reflectance Wavebands and Indices for Remote Estimation of Photosynthesis and Stomatal Conductance in Pine Canopies, G. A. Carter, 63:61
- Sensitivity of Modeled C- and L-Band Radar to Ground Surface Parameters in Loblolly Forest, Y. Wang, J. L. Daly, F. W. Davis, 66:331
- Sensitivity of Texture of High Resolution Images of Forest to Biophysical and Acquisition Parameters, V. Bruniquel-Pinel, J. P. Gastellu-Etchegorry, 65:61
- Subpixel Land Use Classification and Retrieval of Forest Stem Volume in the Boreal Forest Zone by Employing SSM/I Data, J. Grandell, J. Pulliainen, M. Hallikainen, 63:140
- Topographic Normalization of Landsat TM Images of Forest Based on Subpixel Sun-Canopy-Sensor Geometry, D. Gu, A. Gillespie, 64:166
- Tropical Forest Biomass Density Estimation Using JERS-1 SAR: Seasonal Variation, Confidence Limits,

and Application to Image Mosaics, A. Luckman, J. Baker, M. Honzák, R. Lucas, 63:126

Geology

Hydrothermal Alteration Mapping at Bodie, California, Using AVIRIS Hyperspectral Data, A. P. Crósta, C. Sabine, J. V. Taranik, 65:309

Quantitative Geochemical Mapping of Ammonium Minerals in the Southern Cedar Mountains, Nevada, Using the Airborne Visible/Infrared Imaging Spectrometer (AVIRIS), W. M. Baugh, F. A. Kruse, W. W. Atkinson, Jr., 65:292

Glaciers

Anisotropy of the Reflected Radiation Field Over Melting Glacier Ice: Measurements in Landsat TM Bands 2 and 4, W. H. Knap, C. H. Reijmer, 65:93

Measurements of Glacier Variation in the Tibetan Plateau Using Landsat Data, Z. Li, W. Sun, Q. Zeng, 63:258

Global Change

An Analysis of Relationships among Climate Forcing and Time-Integrated NDVI of Grasslands over the U.S. Northern and Central Great Plains, L. Yang, B. K. Wylie, L. L. Tieszen, B. C. Reed, 65:25

GOES

Improved Finite Impulse Response Filters for Enhanced Destriping of Geostationary Satellite Data, J. J. Simpson, J. R. Stitt, D. M. Leath, 66:235

Ice

Anisotropy of the Reflected Radiation Field Over Melting Glacier Ice: Measurements in Landsat TM Bands 2 and 4, W. H. Knap, C. H. Reijmer, 65:93

An Intercomparison of DMSP F11- and F13-Derived Sea Ice Products, J. Stroeve, J. Maslanik, L. Xiaoming, 64:132

Temporal Mixture Analysis of Arctic Sea Ice Imagery: A New Approach for Monitoring for Monitoring Environmental Change, J. M. Piwowar, D. R. Peddle, E. F. LeDrew, 63:195

Image Processing

Application of Spectral Mixture Analysis and Image Fusion Techniques for Image Sharpening, H. N. Gross, J. R. Schott, 63:85

Compositing Criteria for Burned Area Assessment Using Multitemporal Low Resolution Satellite Data, P. M. Barbosa, J. M. C. Pereira, J.-M. Grégoire, 65:38

Improved Finite Impulse Response Filters for Enhanced

Destriping of Geostationary Satellite Data, J. J. Simpson, J. R. Stitt, D. M. Leath, 66:235

Multivariate Alteration Detection (MAD) and MAF Post-processing in Multispectral, Bitemporal Image Data: New Approaches to Change Detection Studies, A. A. Nielsen, K. Conradsen, J. J. Simpson, 64:1

Imaging Spectrometry

Atmospheric Precorrected Differential Absorption Technique to Retrieve Columnar Water Vapor, D. Schläpfer, C. C. Borel, J. Keller, K. I. Itten, 65:353

Coastal Bathymetry from Hyperspectral Observations of Water Radiance, J. C. Sandidge, R. J. Holyer, 65:341

Determining Forest Species Composition Using High Spectral Resolution Remote Sensing Data, M. E. Martin, S. D. Newman, J. D. Aber, R. G. Congalton, 65:249

The Effect of Grain Size on Spectral Mixture Analysis of Snow-Covered Area from AVIRIS Data, T. H. Painter, D. A. Roberts, R. O. Green, J. Dozier, 65:320

Estimating Canopy Water Content of Chaparral Shrubs Using Optical Methods, S. L. Ustin, D. A. Roberts, J. Pinzón, S. Jacquemoud, M. Gardner, G. Scheer, C. M. Casteñeda, A. Palacios-Orueta, 65:280

Hydrothermal Alteration Mapping at Bodie, California, Using AVIRIS Hyperspectral Data, A. P. Crósta, C. Sabine, J. V. Taranik, 65:309

Imaging Spectroscopy and the Airborne Visible/Infrared Imaging Spectrometer (AVIRIS), R. O. Green, M. L. Eastwood, C. M. Sarture, T. G. Chrien, M. Aronsson, B. J. Chippendale, J. A. Faust, B. E. Pavri, C. J. Chovit, M. Solis, M. R. Olah, O. Williams, 65:227

Mapping Chaparral in the Santa Monica Mountains Using Multiple Endmember Spectral Mixture Models, 65:267

MODTRAN Cloud and Multiple Scattering Upgrades with Application to AVIRIS, A. Berk, L. S. Bernstein, G. P. Anderson, P. K. Acharya, D. C. Robertson, J. H. Chetwynd, S. M. Adler-Golden, 65:367

Monitoring Seasonal Dynamics of Arid Land Vegetation Using AVIRIS Data, Z. Chen, C. D. Elvidge, D. P. Groeneveld, 65:255

Quantitative Geochemical Mapping of Ammonium Minerals in the Southern Cedar Mountains, Nevada, Using the Airborne Visible/Infrared Imaging Spectrometer (AVIRIS), W. M. Baugh, F. A. Kruse, W. W. Atkinson, Jr., 65:292

Remote Sensing of Soil Properties in the Santa Monica Mountains I. Spectral Analysis, A. Palacios-Orueta, S. L. Ustin, 65:170

Simulation of AVIRIS Sensitivity for Detecting Chlorophyll over Coastal and Inland Waters, H. J. Hoogenboom, A. G. Dekker, J. A. Althuis, 65:333

Information Extraction

- An Approach for Analysis of Reflectance Spectra, J. C. Price, 64:316
- Computer Aided Recognition of Relief Patterns on Radar Images Using a Syntax Analysis, J. Chorowicz, T. Rouis, J.-P. Rudant, S. Manoussis, 64:221
- Progressive Two-Class Decision Classifier for Optimization of Class Discriminations, X. Jia, J. A. Richards, 63:289
- Quantification of Subpixel Cover Fractions Using Principal Component Analysis and a Linear Programming Method: Application to the Coastal Zone of Roscoff (France), T. Bajjouk, J. Populus, B. Guillaumont, 64:153

Land Classification

- Accuracies in Mapping Secondary Tropical Forest Age from Sequential Satellite Imagery, D. S. Kimes, R. F. Nelson, D. L. Skole, W. A. Salas, 65:112
- Assessing Map Accuracy in a Remotely Sensed, Ecoregion-Scale Cover Map, T. C. Edwards Jr., G. G. Moisen, D. R. Cutler, 63:73
- Detection of Forest Decline in Monchegorsk Area, O. Hagner, O. Rigina, 63:11
- Estimation and Mapping of Misclassification Probabilities for Thematic Land Cover Maps, B. M. Steele, J. C. Winne, R. L. Redmond, 66:192
- Mapping Actual Evapotranspiration by Combining Landsat TM and NOAA-AVHRR Images: Application to the Barrax Area, Albacete, Spain, V. Caselles, M. M. Artigao, E. Hurtado, C. Coll, A. Brasa, 63:1
- Multitemporal Land-Cover Classification Using SIR-C/X-SAR Imagery, L. E. Pierce, K. M. Bergen, M. C. Dobson, F. T. Ulaby, 64:20
- NALC Land Cover Change Detection Pilot Study: Washington D.C. Area Experiments, D. Yuan, C. Elvidge, 66:166
- Subpixel Land Use Classification and Retrieval of Forest Stem Volume in the Boreal Forest Zone by Employing SSM/I Data, J. Grandell, J. Pulliainen, M. Hallikainen, 63:140
- Tropical Forest Biomass Density Estimation Using JERS-1 SAR: Seasonal Variation, Confidence Limits, and Application to Image Mosaics, A. Luckman, J. Baker, M. Honzák, R. Lucas, 63:126
- Using Landscape Spatial Relationships to Improve Estimates of Land-Cover Area from Coarse Resolution Remote Sensing, A. Moody, 64:202

Landsat TM

- Anisotropy of the Reflected Radiation Field Over Melting Glacier Ice: Measurements in Landsat TM Bands 2 and 4, W. H. Knap, C. H. Reijmer, 65:93

- Integration of High and Low Resolution NDVI Data for Monitoring Vegetation in Mediterranean Environments, F. Maselli, M. A. Gilabert, C. Conese, 63:208
- Mapping Actual Evapotranspiration by Combining Landsat TM and NOAA-AVHRR Images: Application to the Barrax Area, Albacete, Spain, V. Caselles, M. M. Artigao, E. Hurtado, C. Coll, A. Brasa, 63:1
- Mapping Fire-Induced Vegetation Mortality Using Landsat Thematic Mapper Data: A Comparison of Linear Transformation Techniques, M. W. Patterson, S. R. Yool, 65:132
- Multivariate Alteration Detection (MAD) and MAF Post-processing in Multispectral, Bitemporal Image Data: New Approaches to Change Detection Studies, A. A. Nielsen, K. Conradsen, J. J. Simpson, 64:1

- A Neural Network Model for Estimating Sea Surface Chlorophyll and Sediments from Thematic Mapper Imagery, L. E. Keiner, X.-H. Yan, 66:153
- Topographic Normalization of Landsat TM Images of Forest Based on Subpixel Sun-Canopy-Sensor Geometry, D. Gu, A. Gillespie, 64:166
- Using Landscape Spatial Relationships to Improve Estimates of Land-Cover Area from Coarse Resolution Remote Sensing, A. Moody, 64:202

Landscape Metrics

- Using Landscape Spatial Relationships to Improve Estimates of Land-Cover Area from Coarse Resolution Remote Sensing, A. Moody, 64:202

Leaf Area Index

- Aerial Image Texture Information in the Estimation of Northern Deciduous and Mixed Wood Forest Leaf Area Index (LAI), M. A. Wulder, E. F. LeDrew, S. E. Franklin, M. B. Lavigne, 64:64
- Sensitivity of Texture of High Resolution Images of Forest to Biophysical and Acquisition Parameters, V. Bruniquel-Pinel, J. P. Gastellu-Etchegorry, 65:61

Leaf Biochemistry

- Biophysical and Biochemical Sources of Variability in Canopy Reflectance, G. P. Asner, 64:234
- Compositing Criteria for Burned Area Assessment Using Multitemporal Low Resolution Satellite Data, P. M. Barbosa, J. M. C. Pereira, J.-M. Grégoire, 65:38
- Quantifying Chlorophylls and Carotenoids at Leaf and Canopy Scales: An Evaluation of Some Hyperspectral Approaches, G. A. Blackburn, 66:273
- Remote Sensing of Chlorophyll *a*, Chlorophyll *a+b*, and Total Carotenoid Content in Eucalyptus Leaves, B. Datt, 66:111

Lidar

- Potential for Determining the Sea Water Absorption Coefficient by Satellite Pulsed Lidar, I. M. Levin, K. S. Shifrin, 65:105

Mixture Models

- Application of Spectral Mixture Analysis and Image Fusion Techniques for Image Sharpening, H. N. Gross, J. R. Schott, 63:85
- Estimating Erosion Surface Features by Linear Mixture Modeling, G. I. Metternicht, A. Fermont, 64:254
- Mapping Chaparral in the Santa Monica Mountains Using Multiple Endmember Spectral Mixture Models, 65:267
- Quantification of Subpixel Cover Fractions Using Principal Component Analysis and a Linear Programming Method: Application to the Coastal Zone of Roscoff (France), T. Bajjouk, J. Populus, B. Guillaumont, 64:153

Multiangl e Measurements

- Anisotropy of the Reflected Radiation Field Over Melting Glacier Ice: Measurements in Landsat TM Bands 2 and 4, W. H. Knap, C. H. Reijmer, 65:93
- Ecology Research Needs from Multiangle Remote Sensing Data, G. P. Asner, B. H. Braswell, D. S. Schimel, C. A. Wessman, 63:155

Ocean color

- In-Orbit Calibration Strategy for Ocean Color Sensors, H. R. Gordon, 63:265
- Oceans
- Effects of the Speed and Direction of Surface Winds on the Radiation in the Atmosphere-Ocean System, K. Masuda, 64:53
- Improved Cloud Detection in Along Track Scanning Radiometer (ATSR) Data over the Ocean, J. J. Simpson, A. Schmidt, A. Harris, 65:1
- In-Orbit Calibration Strategy for Ocean Color Sensors, H. R. Gordon, 63:265
- A Neural Network Model for Estimating Sea Surface Chlorophyll and Sediments from Thematic Mapper Imagery, L. E. Keiner, X.-H. Yan, 66:153
- Potential for Determining the Sea Water Absorption Coefficient by Satellite Pulsed Lidar, I. M. Levin, K. S. Shifrin, 65:105
- On the Reduction of the Radar Backscatter by Oceanic Surface Films: Scatterometer Measurements and Their Theoretical Interpretation, M. Gade, W. Alpers, H. Hühnerfuss, V. R. Wismann, P. A. Lange, 66:52

Passive Microwave

- Combining Optical and Microwave Remote Sensing for Mapping Energy Fluxes in a Semiarid Watershed, W. P. Kustas, X. Zhan, T. J. Schmugge, 64:116

- Estimation of Snow Water Equivalent Using Passive Microwave Radiation Data, A. B. Tait, 64:286

- An Intercomparison of DMSP F11- and F13-Derived Sea Ice Products, J. Stroeve, J. Maslanik, L. Xiaoming, 64:132

- Subpixel Land Use Classification and Retrieval of Forest Stem Volume in the Boreal Forest Zone by Employing SSM/I Data, J. Grandell, J. Pulliainen, M. Hallikainen, 63:140

Photosynthesis

- Estimating fAPAR from Nine Vegetation Indices for Irrigated and Nonirrigated Faba Bean and Semileafless Pea Canopies, E. Ridao, J. R. Conde, M. I. Minguéz, 66:87
- Reflectance Wavebands and Indices for Remote Estimation of Photosynthesis and Stomatal Conductance in Pine Canopies, G. A. Carter, 63:61
- The Relation between Laser-Induced Chlorophyll Fluorescence and Photosynthesis, A. Rosema, J. F. H. Snel, H. Zahn, W. F. Buurmeijer, L. W. A. Van Hove, 65:143

Radar

- AIRSAR Studies of Woody Shrub Density in Semiarid Rangeland: Jornada del Muerto, New Mexico, H. B. Musick, G. G. Schaber, C. S. Breed, 66:29
- A Backscatter Model for a Dense Discrete Medium: Analysis and Numerical Results, H. T. Ewe, H. T. Chuah, A. K. Fung, 65:195
- C- and Multiangle Ku-Band Synthetic Aperture Radar Data for Bare Soil Moisture Estimation in Agricultural Areas, E. E. Sano, M. S. Moran, A. R. Huete, T. Miura, 64:77
- Characterizing Carbon in a Northern Forest by Using SIR-C/X-SAR Imagery, K. M. Bergen, M. C. Dobson, L. E. Pierce, F. T. Ulaby, 63:24
- Computer Aided Recognition of Relief Patterns on Radar Images Using a Syntax Analysis, J. Chorowicz, T. Rouis, J.-P. Rudant, S. Manoussis, 64:221
- Inclusion of a Simple Multiple Scattering Model into a Microwave Canopy Backscatter Model, Y. Wang, J. F. Paris, F. W. Davis, 63:101
- Multitemporal Land-Cover Classification Using SIR-C/X-SAR Imagery, L. E. Pierce, K. M. Bergen, M. C. Dobson, F. T. Ulaby, 64:20
- On the Reduction of the Radar Backscatter by Oceanic Surface Films: Scatterometer Measurements and Their Theoretical Interpretation, M. Gade, W. Alpers, H. Hühnerfuss, V. R. Wismann, P. A. Lange, 66:52
- Remote Sensing of Desert Dune Forms by Polarimetric Synthetic Aperture Radar (SAR), D. G. Blumberg, 65:204
- Sensitivity of Modeled C- and L-Band Radar to Ground

- Surface Parameters in Loblolly Pine Forest, Y. Wang, J. L. Daly, F. W. Davis, 66:331
- Soil Moisture Influences on the Radar Backscattering of Sugar Beet Fields, G. Schoups, P. A. Troch, N. Verhoest, 65:184
- Tropical Forest Biomass Density Estimation Using JERS-1 SAR: Seasonal Variation, Confidence Limits, and Application to Image Mosaics, A. Luckman, J. Baker, M. Honzák, R. Lucas, 63:126
- Radiation Modeling**
- A Backscatter Model for a Dense Discrete Medium: Analysis and Numerical Results, H. T. Ewe, H. T. Chuah, A. K. Fung, 65:195
- Confirmation of Helmholtz Reciprocity Using ScaRaB Satellite Data, M. Capderou, 64:266
- Crop Reflectance Estimate Errors from the SAIL Model Due to Spatial and Temporal Variability of Canopy and Soil Characteristics, C. Duke, M. Guérif, 66:286
- Inclusion of a Simple Multiple Scattering Model into a Microwave Canopy Backscatter Model, Y. Wang, J. F. Paris, F. W. Davis, 63:101
- An Investigation of Terrain Effects on the Inversion of a Forest Reflectance Model, F. Gemmell, 65:155
- LIBERTY—Modeling the Effects of Leaf Biochemical Concentration of Reflectance Spectra, T. P. Dawson, P. J. Curran, S. E. Plummer, 65:50
- A Method to Retrieve the Reflectivity Signature at 3.75 μm from AVHRR Data, J. C. Roger, E. F. Vermote, 103
- MODTRAN Cloud and Multiple Scattering Upgrades with Application to AVIRIS, A. Berk, L. S. Bernstein, G. P. Anderson, P. K. Acharya, D. C. Robertson, J. H. Chetwynd, S. M. Adler-Golden, 65:367
- Sensitivity of Modeled C- and L-Band Radar to Ground Surface Parameters in Loblolly Pine Forest, Y. Wang, J. L. Daly, F. W. Davis, 66:331
- Variability in Leaf and Litter Optical Properties: Implications for BRDF Model Inversions Using AVHRR, MODIS, and MISR, G. P. Asner, C. A. Wessman, D. S. Schimel, S. Archer, 63:243
- Rainfall Estimation**
- Identification of Possible Wave Damping by Rain Using TOPEX and TMR Data, G. Chen, B. Chapron, J. Tournadre, K. Katsaros, D. Vandemark, 63:40
- Reflectance Measurements**
- Comparison of Visible Calibrations of GOME and ATSR-2, R. B. A. Koelmeijer, P. Stammes, P. D. Watts, 63:279
- Confirmation of Helmholtz Reciprocity Using ScaRaB Satellite Data, M. Capderou, 64:266
- Estimation of BRDF from AVHRR Short-Wave Channels: Tests over Semiarid Australian Sites, D. M. O'Brien, R. M. Mitchell, M. Edwards, C. C. Elsum, 66:71
- LIBERTY—Modeling the Effects of Leaf Biochemical Concentration of Reflectance Spectra, T. P. Dawson, P. J. Curran, S. E. Plummer, 65:50
- Physical Mechanisms in Hyperspectral BRDF Data of Grass and Watercress, St. Sandmeier, Ch. Müller, B. Hosgood, G. Andreoli, 66:222
- Relationships between Satellite-Based Radiometric Indices Simulated Using Laboratory Reflectance Data and Typic Soil Color of an Arid Environment, R. Mathieu, M. Pouget, B. Cervelle, R. Escadafal, 66:17
- Sensitivity Analysis and Quality Assessment of Laboratory BRDF Data, St. Sandmeier, Ch. Müller, B. Hosgood, G. Andreoli, 64:176
- Spectral Discrimination of *Cannabis sativa* L. Leaves and Canopies, C. S. T. Daughtry, C. L. Walthall, 64:192
- Variability of Laboratory Measured Soil Lines of Soils from Southeastern Brazil, L. S. Galvão, Í. Vitorello, 63:166
- Sea Ice**
- An Intercomparison of DMSP F11- and F13-Derived Sea Ice Products, J. Stroeve, J. Maslanik, L. Xiaoming, 64:132
- Temporal Mixture Analysis of Arctic Sea Ice Imagery: A New Approach for Monitoring for Monitoring Environmental Change, J. M. Piwowar, D. R. Peddle, E. F. Ledrew, 63:195
- Snow**
- Assessment of Snow-Cover Mapping Accuracy in a Variety of Vegetation-Cover Densities in Central Alaska, D. K. Hall, J. L. Foster, D. L. Verbyla, A. G. Klein, S. C. Benson, 66:129
- The Effect of Grain Size on Spectral Mixture Analysis of Snow-Covered Area from AVIRIS Data, T. H. Painter, D. A. Roberts, R. O. Green, J. Dozier, 65:320
- Estimation of Snow Water Equivalent Using Passive Microwave Radiation Data, A. B. Tait, 64:286
- Remote Sensing of Soil Properties in the Santa Monica Mountains I. Spectral Analysis, A. Palacios-Orueta, S. L. Ustin, 65:170
- Soil Properties**
- C- and Multiangle Ku-Band Synthetic Aperture Radar Data for Bare Soil Moisture Estimation in Agricultural Areas, E. E. Sano, M. S. Moran, A. R. Huete, T. Miura, 64:77

Combining Optical and Microwave Remote Sensing for Mapping Energy Fluxes in a Semiarid Watershed, W. P. Kustas, X. Zhan, T. J. Schmugge, 64:116

Estimating Erosion Surface Features by Linear Mixture Modeling, G. I. Metternicht, A. Fermont, 64:254

Infrared Measurements of Pristine and Disturbed Soils 2. Environmental Effects and Field Data Reduction, K. A. Horton, J. R. Johnson, P. G. Lucey, 64:47

Infrared Measurements of Pristine and Disturbed Soils 1. Spectral Contrast Differences between Field and Laboratory Data, J. R. Johnson, P. G. Lucey, K. A. Horton, E. M. Winter, 64:34

Relationships between Satellite-Based Radiometric Indices Simulated Using Laboratory Reflectance Data and Typic Soil Color of an Arid Environment, R. Mathieu, M. Pouget, B. Cervelle, R. Escadafal, 66:17

Soil Moisture Influences on the Radar Backscattering of Sugar Beet Fields, G. Schoups, P. A. Troch, N. Verhoest, 65:184

Variability of Laboratory Measured Soil Lines of Soils from Southeastern Brazil, L. S. Galvão, Í. Vitorello, 63:166

Spatial Resolution

Integration of High and Low Resolution NDVI Data for Monitoring Vegetation in Mediterranean Environments, F. Maselli, M. A. Gilabert, C. Conese, 63:208

Spectroradiometry

An Approach for Analysis of Reflectance Spectra, J. C. Price, 64:316

Comparison of Visible Calibrations of GOME and ATSR-2, R. B. A. Koelemeijer, P. Stammes, P. D. Watts, 63:279

Derivative Analysis of Hyperspectral Data, F. Tsai, W. Philpot, 66:41

Hyperspectral Imaging and Stress Mapping in Agriculture: A Case Study on Wheat in Beauce (France), C. C. D. LeLong, P. C. Pinet, H. Poilvé, 66:179

Imaging Spectroscopy and the Airborne Visible/Infrared Imaging Spectrometer (AVIRIS), R. O. Green, M. L. Eastwood, C. M. Sarture, T. G. Chrien, M. Aronsson, B. J. Chippendale, J. A. Faust, B. E. Pavri, C. J. Chovit, M. Solis, M. R. Olah, O. Williams, 65:227

Physical Mechanisms in Hyperspectral BRDF Data of Grass and Watercress, St. Sandmeier, Ch. Müller, B. Hosgood, G. Andreoli, 66:222

Processing of High Spectral Resolution Reflectance Data for the Retrieval of Canopy Water Content Information, E. M. Rollin, E. J. Milton, 65:86

Remote Sensing of Soil Properties in the Santa Monica Mountains I. Spectral Analysis, A. Palacios-Orueta, S. L. Ustin, 65:170

Spectral Discrimination of Healthy and Non-Healthy

Corals Based on Cluster Analysis, Principal Components Analysis, and Derivative Spectroscopy, H. Holden, E. LeDrew, 65:217

Surface Temperature

Recovering Surface Temperature and Emissivity from Thermal Infrared Multispectral Data, T. Schmugge, S. J. Hook, C. Coll, 65:121

Temporal

Accuracies in Mapping Secondary Tropical Forest Age from Sequential Satellite Imagery, D. S. Kimes, R. F. Nelson, D. L. Skole, W. A. Salas, 65:112

Multitemporal Land-Cover Classification Using SIR-C/X-SAR Imagery, L. E. Pierce, K. M. Bergen, M. C. Dobson, F. T. Ulaby, 64:20

Observations and Interpretation of Seasonal ERS-1 Wind Scatterometer Data over Northern Sahel (Mali), P. L. Firson, E. Mougin, P. Hiernaux, 63:233

Temporal Mixture Analysis of Arctic Sea Ice Imagery: A New Approach for Monitoring for Monitoring Environmental Change, J. M. Piwowar, D. R. Peddle, E. F. LeDrew, 63:195

Tropical Forest Biomass Density Estimation Using JERS-1 SAR: Seasonal Variation, Confidence Limits, and Application to Image Mosaics, A. Luckman, J. Baker, M. Honzák, R. Lucas, 63:126

Texture

Aerial Image Texture Information in the Estimation of Northern Deciduous and Mixed Wood Forest Leaf Area Index (LAI), M. A. Wulder, E. F. LeDrew, S. E. Franklin, M.B. Lavigne, 64:64

Sensitivity of Texture of High Resolution Images of Forest to Biophysical and Acquisition Parameters, V. Bruniquel-Pinel, J. P. Gastellu-Etchegorry, 65:61

Textural Analysis of Historical Aerial Photography to Characterize Woody Plant Encroachment in South African Savanna, A. T. Hudak, C. A. Wessman, 66:317

Thematic Mapping

Accuracies in Mapping Secondary Tropical Forest Age from Sequential Satellite Imagery, D. S. Kimes, R. F. Nelson, D. L. Skole, W. A. Salas, 65:112

Assessing Map Accuracy in a Remotely Sensed, Ecoregion-Scale Cover Map, T. C. Edwards Jr., G. G. Moisen, D. R. Cutler, 63:73

Design and Analysis for Thematic Map Accuracy Assessment: Fundamental Principles, S. V. Stehman, R. L. Czaplewski, 64:331

Estimation and Mapping of Misclassification Probabilities for Thematic Land Cover Maps, B. M. Steele, J. C. Winne, R. L. Redmond, 66:192

Using Landscape Spatial Relationships to Improve Estimates of Land-Cover Area from Coarse Resolution Remote Sensing, A. Moody, 64:202

Thermal Measurements

Bidirectional Reflectivity in AVHRR Channel 3: Application to a Region in Northern Africa, F. Nerry, F. Petitcolin, M. P. Stoll, 66:298

Infrared Measurements of Pristine and Disturbed Soils 2. Environmental Effects and Field Data Reduction, K. A. Horton, J. R. Johnson, P. G. Lucey, 64:47

Infrared Measurements of Pristine and Disturbed Soils 1. Spectral Contrast Differences between Field and Laboratory Data, J. R. Johnson, P. G. Lucey, K. A. Horton, E. M. Winter, 64:34

A Method to Retrieve the Reflectivity Signature at 3.75 μm from AVHRR Data, J. C. Roger, E. F. Vermote, 103

Recovering Surface Temperature and Emissivity from Thermal Infrared Multispectral Data, T. Schmugge, S. J. Hook, C. Coll, 65:121

Topography

Computer Aided Recognition of Relief Patterns on Radar Images Using a Syntax Analysis, J. Chorowicz, T. Rouis, J.-P. Rudant, S. Manoussis, 64:221

An Investigation of Terrain Effects on the Inversion of a Forest Reflectance Model, F. Gemmell, 65:155

Topographic Normalization of Landsat TM Images of Forest Based on Subpixel Sun-Canopy-Sensor Geometry, D. Gu, A. Gillespie, 64:166

Urban

A Comparison of Four Algorithms for Change Detection in an Urban Environment, M. K. Ridd, J. Liu, 63:95

Vegetation Indices

An Analysis of Relationships among Climate Forcing and Time-Integrated NDVI of Grasslands over the U.S. Northern and Central Great Plains, L. Yang, B. K. Wylie, L. L. Tieszen, B. C. Reed, 65:25

Comparisons among Vegetation Indices and Bandwise Regression in a Highly Disturbed, Heterogeneous Landscape: Mount St. Helens, Washington, R. L. Lawrence, W. J. Ripple, 64:91

Integration of High and Low Resolution NDVI Data for Monitoring Vegetation in Mediterranean Environments, F. Maselli, M. A. Gilabert, C. Conese, 63:208

Investigation of the Utility of Spectral Vegetation Indices for Determining Information on Coniferous Forests, A. J. McDonald, F. M. Gemmell, P. E. Lewis, 66:250

MODIS NVDI Optimization to Fit the AVHRR Data

Series—Spectral Considerations, A. A. Gitelson, Y. J. Kaufman, 66:343

Reflectance Wavebands and Indices for Remote Estimation of Photosynthesis and Stomatal Conductance in Pine Canopies, G. A. Carter, 63:61

The Sensitivity of the OSAVI Vegetation Index to Observational Parameters, M. D. Steven, 63:49

Vegetation Properties

AIRSAR Studies of Woody Shrub Density in Semiarid Rangeland: Jornada del Muerto, New Mexico, H. B. Musick, G. G. Schaber, C. S. Breed, 66:29

Biophysical and Biochemical Sources of Variability in Canopy Reflectance, G. P. Asner, 64:234

Comparisons among Vegetation Indices and Bandwise Regression in a Highly Disturbed, Heterogeneous Landscape: Mount St. Helens, Washington, R. L. Lawrence, W. J. Ripple, 64:91

Estimating Canopy Water Content of Chaparral Shrubs Using Optical Methods, S. L. Ustin, D. A. Roberts, J. Pinzón, S. Jacquemoud, M. Gardner, G. Scheer, C. M. Casteñeda, A. Palacios-Orueta, 65:280

Estimating fAPAR from Nine Vegetation Indices for Irrigated and Nonirrigated Faba Bean and Semileafless Pea Canopies, E. Ridao, J. R. Conde, M. I. Minguez, 66:87

Inclusion of a Simple Multiple Scattering Model into a Microwave Canopy Backscatter Model, Y. Wang, J. F. Paris, F. W. Davis, 63:101

LEAFMOD: A New Within-Leaf Radiative Transfer Model, B. D. Ganapol, L. F. Johnson, P. D. Hammer, C. A. Hlavka, D. L. Peterson, 63:182

Mapping Fire-Induced Vegetation Mortality Using Landsat Thematic Mapper Data: A Comparison of Linear Transformation Techniques, M. W. Patterson, S. R. Yool, 65:132

Processing of High Spectral Resolution Reflectance Data for the Retrieval of Canopy Water Content Information, E. M. Rollin, E. J. Milton, 65:86

Remote Sensing of Chlorophyll *a*, Chlorophyll *a+b*, and Total Carotenoid Content in Eucalyptus Leaves, B. Datt, 66:111

The Sensitivity of the OSAVI Vegetation Index to Observational Parameters, M. D. Steven, 63:49

Spectral Discrimination of *Cannabis sativa* L. Leaves and Canopies, C. S. T. Daughtry, C. L. Walthall, 64:192

Variability in Leaf and Litter Optical Properties: Implications for BRDF Model Inversions Using AVHRR, MODIS, and MISR, G. P. Asner, C. A. Wessman, D. S. Schimel, S. Archer, 63:243

Videography

- A Twelve-Band Airborne Digital Video Imaging System (ADVIS), D. E. Escobar, J. H. Everitt, J. R. Noriega, I. Cavazos, M. R. Davis, 66:122

Water Properties

- Coastal Bathymetry from Hyperspectral Observations of Water Radiance, J. C. Sandidge, R. J. Holyer, 65:341

- Simulation of AVIRIS Sensitivity for Detecting Chlorophyll over Coastal and Inland Waters, H.J. Hoogenboom, A. G. Dekker, IJ. A. Althius, 65:333

Wind

- Effects of the Speed and Direction of Surface Winds on the Radiation in the Atmosphere-Ocean System, K. Masuda, 64:53



